

Deeper Inspection

But what did we just do?

- Julia as a compiler for writing Julia programs in Julia
- Static output with dynamic semantics

Overview: Translation stages

- `./julia (repl.c)`
- `eval/include (builtins.c)`
 - `parser (julia-parser.scm)`
 - `run macros (ast.c)`
 - `lowered form (julia-syntax.scm)`
 - `execute toplevel expressions (toplevel.c)`
 - `call functions (gf.c)`
 - `dispatch (typemap.c)`
 - `interpreter (interpreter.c)` OR
`compiler (codegen.cpp)`
+ `optimizations (inference.jl)`

For details, see Jeff's talk from JuliaCon 2014.